PATENT ABSTRACTS

File 8:Ei Compendex(R) 1884-2009/Mar W5
(c) 2009 Elsevier Eng. Info. Inc.
File 35:Dissertation Abs Online 1861-2009/Mar
(c) 2009 ProQuest Info&Learning
File 65:Inside Conferences 1993-2009/Apr 07
(c) 2009 BLDSC all rts. reserv.
File 2:INSPEC 1898-2009/Mar W5
(c) 2009 Institution of Electrical Engineers
File 6:NTIS 1964-2009/Apr W2
(c) 2009 NTIS, Intl Cpyrght All Rights Res
File 144:Pascal 1973-2009/Apr W1
(c) 2009 INIST/CNRS
File 34:SciSearch(R) Cited Ref Sci 1990-2009/Apr W1
(c) 2009 The Thomson Corp
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 2006 The Thomson Corp
File 99:Wilson Appl. Sci & Tech Abs 1983-2009/Feb
(c) 2009 The HW Wilson Co.
File 95:TEME-Technology & Management 1989-2009/Mar W3
(c) 2009 FIZ TECHNIK
File 23:CSA TECHNOLOGY RESEARCH DATABASE 1963-2009/MAR
(c) 2009 CSA.
File 256:TecInfoSource 82-2009/Dec
(c) 2009 Info.Sources Inc

? **ds**

Set	Items	Description
S1	1064791	REQUEST? ? OR QUERY OR QUERIES OR SEARCH OR SEARCHES
S2	38067	S1(5N)(CONVERT? OR CONVERSION? OR TRANSFORM? OR CHANG??? OR TRANSLAT? OR MODIFY? OR MODIFI? OR ALTER?)
S3	43564	APPLICATION()PROGRAM?()INTERFACE? OR API
S4	23	SEMANTIC(2N)OBJECT()CLASS??
S5	0	S4 AND S2
S6	0	S4 AND S3
S7	13	RD S4 (unique items)
S8	8	S7 NOT PY=2004:2009
S9	14	SEMANTIC()OBJECT()CLASS??
S10	5	S9 NOT PY=2004:2009
S11	2	RD (unique items)
S12	0	S11 NOT S8

FULL-TEXT NPL

File 9:Business & Industry(R) Jul/1994-2009/Apr 08
(c) 2009 Gale/Cengage
File 13:BAMP 2009/Apr 08
(c) 2009 Gale/Cengage
File 15:ABI/Inform(R) 1971-2009/Apr 04
(c) 2009 ProQuest Info&Learning
File 16:Gale Group PROMT(R) 1990-2009/Mar 19
(c) 2009 Gale/Cengage
File 20:Dialog Global Reporter 1997-2009/Apr 09
(c) 2009 Dialog
File 47:Gale Group Magazine DB(TM) 1959-2009/Mar 31
(c) 2009 Gale/Cengage
File 75:TGG Management Contents(R) 86-2009/Mar W1
(c) 2009 Gale/Cengage
File 88:Gale Group Business A.R.T.S. 1976-2009/Apr 08
(c) 2009 Gale/Cengage
File 98:General Sci Abs 1984-2009/Apr
(c) 2009 The HW Wilson Co.
File 141:READERS GUIDE 1983-2009/MAR
(c) 2009 THE HW WILSON CO
File 148:Gale Group Trade & Industry DB 1976-2009/Mar 25
(c) 2009 Gale/Cengage
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2009/Mar 13
(c) 2009 Gale/Cengage
File 369:New Scientist 1994-2009/Mar W5
(c) 2009 Reed Business Information Ltd.
File 370:Science 1996-1999/Jul W3
(c) 1999 AAAS
File 484:Periodical Abs Plustext 1986-2009/Mar W5
(c) 2009 ProQuest
File 553:Wilson Bus. Abs. 1982-2009/Apr
(c) 2009 The HW Wilson Co
File 610:Business Wire 1999-2009/Apr 02
(c) 2009 Business Wire.
File 613:PR Newswire 1999-2009/Apr 09
(c) 2009 PR Newswire Association Inc
File 621:Gale Group New Prod.Annou.(R) 1985-2009/Mar 04
(c) 2009 Gale/Cengage
File 624:McGraw-Hill Publications 1985-2009/Apr 07
(c) 2009 McGraw-Hill Co. Inc
File 634:San Jose Mercury Jun 1985-2009/Apr 05
(c) 2009 San Jose Mercury News
File 635:Business Dateline(R) 1985-2009/Apr 08
(c) 2009 ProQuest Info&Learning
File 636:Gale Group Newsletter DB(TM) 1987-2009/Mar 18
(c) 2009 Gale/Cengage
File 647:UBM Computer Fulltext 1988-2009/Feb W3
(c) 2009 UBM, LLC

File 674:Computer News Fulltext 1989-2006/Sep W1
(c) 2006 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2009/Apr 08
(c) 2009 Dialog
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc

? **ds**

Set	Items	Description
S1	8897816	REQUEST? ? OR QUERY OR QUERIES OR SEARCH OR SEARCHES
S2	176841	S1(5N)(CONVERT? OR CONVERSION? OR TRANSFORM? OR CHANG??? OR TRANSLAT? OR MODIFY? OR MODIFI? OR ALTER?)
S3	365472	APPLICATION()PROGRAM?()INTERFACE? OR API
S4	2	SEMANTIC(2N)OBJECT()CLASS??
S5	2	RD S4 (unique items)

IEEE Xplore

(semantic object class) <in> pdfdata	4
(((semantic <near/2> object class*) and (api or application programming interface)) <in> pdfdata) <and> (pyr >= 1913 <and> pyr <= 2003)	25

PATENT ABSTRACTS

8/5/4 (Item 3 from file: 2)
DIALOG(R)File 2: INSPEC

06226394 **INSPEC Abstract Number:** C9605-6110F-039
Title: Improving the quality of systems and domain analysis through object class congruency
Author Clyde, S.W.; Embley, D.W.; Woodfield, S.N.
Author Affiliation: Utah State Univ., Logan, UT, USA
Conference Title: Proceedings IEEE Symposium and Workshop on Engineering of Computer-Based Systems (Cat. No.96TB100022) p. 44-51
Publisher: IEEE Comput. Soc. Press , Los Alamitos, CA, USA
Publication Date: 1996 **Country of Publication:** USA xi+465 pp.
ISBN: 0 8186 7355 9 **Material Identity Number:** XX96-00666
U.S. Copyright Clearance Center Code: 0 8186 7355 9/96/$05.00
Conference Title: Proceedings IEEE Symposium and Workshop on Engineering of Computer-Based Systems
Conference Sponsor: IEEE Comput. Soc. Tech. Committee on Eng. of Comput.- Based Syst.; Deutsche Forschungsgemeinschaft, DFG; Eur. Software Process Improvement Training Initiative, ESPITI; Gesellschaft fur Inform., GI e.V.; Land Baden-Wurttemberg; Univ. (TH) Karlbruhe
Conference Date: 11-15 March 1996 **Conference Location:** Friedrichshafen, Germany

Language: English **Document Type:** Conference Paper (PA)
Treatment: Theoretical (T)
Abstract: A new concept for assessing the quality of object classes in analysis models, called object-class congruency, is formally defined and discussed. Object-class congruency is based on the idea that immediate and inherited properties defined for an object class should match the common properties of the class's members. A semantic model with a formal definition is used to formalize these concepts. In addition to defining **object- class** congruency, two **semantic**-preserving transformations that convert incongruent classes into congruent classes are given. It is also explained why object-class congruency leads to better abstraction of real-world concepts and to better implementation, extension, and reuse. (16 Refs)
Subfile: C
Descriptors: object-oriented methods; systems engineering
Identifiers: domain analysis; object class congruency; inherited; common properties; semantic model; formal definition; semantic-preserving transformations; implementation; extension; reuse
Class Codes: C6110F (Formal methods); C6110J (Object-oriented programming)

8/5/5 (Item 4 from file: 2)
DIALOG(R)File 2: INSPEC

06017555 **INSPEC Abstract Number:** C9509-7480-081
Title: Theory of object-oriented semantic association data model
Author Chen Qin; Gu Xinsheng
Author Affiliation: CIMS Res. Center, Xian Jiaotong Univ., Xi'an, China
Journal: Chinese Journal of Advanced Software Research vol.2, no.1 p. 49-59

Publication Date: Feb. 1995 **Country of Publication:** USA
CODEN: CJSRES **ISSN:** 1074-7443
U.S. Copyright Clearance Center Code: 1074-7443/95/$50.00

Language: English **Document Type:** Journal Paper (JP)
Treatment: Practical (P)
Abstract: The paper presents the theory of object oriented semantic association data model (CIM-OSA DM) for the CIM environment. After brief introduction to CIM-OSA DM, it focuses on the formal definition of the fundamental concepts of the model, including **object**, **class** and **semantic** association between classes. From the united point of view of object and class, it further defines the conditions of equal objects and equal classes. The definitions of subobject and subclass are also given formally, Some important characteristics of subobject and subclass are proved. Finally, the concepts of object algebra and some object operations are exploited. (9 Refs)
Subfile: C
Descriptors: abstract data types; computer integrated manufacturing; object-oriented databases
Identifiers: object oriented semantic association data model; object-oriented semantic association data model; CIM-OSA DM; CIM environment; formal definition; equal objects; equal classes; subobject; subclass; object algebra; object operations
Class Codes: C7480 (Production engineering computing); C7160 (Manufacturing and industrial administration); C6160J (Object-oriented databases); C6120 (File organisation)

8/5/6 (Item 5 from file: 2)
DIALOG(R)File 2: INSPEC

04926198 **INSPEC Abstract Number:** C91048486
Title: Knowledge management in interoperable databases
Author Fankhauser, P.; Neuhold, E.J.
Author Affiliation: Inst. for (IPSI) GMD, Darmstadt, West Germany
Conference Title: Interoperable Information Systems, ISIIS '88. Proceedings of the Second International Symposium p. 329-36
Editor(s): Tanaka, H.; Tojo, A.
Publisher: IOS , Amsterdam, Netherlands
Publication Date: 1988 **Country of Publication:** Netherlands vi+416 pp.
Conference Date: 10-11 Nov. 1988 **Conference Location:** Tokyo, Japan

Language: English **Document Type:** Conference Paper (PA)
Treatment: Practical (P)
Abstract: Interoperable information systems require open communication systems, open software architecture but also open database systems to support the multi-user, multi-system environment with a reliable secondary data store that can easily be distributed over a network. By encapsulating complex data structures and their associated operations within object types the new generation of object oriented database systems will support more and more non standard applications efficiently. For modelling the semantics of attributes, relationships, and object types in a modular and declarative way more powerful concepts are required. The authors propose the use of metatypes for declaring the transitivity, inheritance behaviour, constraints, etc. of relationships, the generic functionality of object types and for dealing with multiple inheritance. Thereby data models become open to describe preexisting database systems of arbitrary type homogeneously and to include new specialized types of semantic relationships and object classes for new applications. (19 Refs)
Subfile: C
Descriptors: data structures; distributed databases; object-oriented databases; open systems
Identifiers: interoperable databases; open communication systems; open software architecture; open database systems; reliable secondary data store; complex data structures; metatypes; transitivity; inheritance behaviour; constraints; generic functionality; multiple inheritance
Class Codes: C6160B (Distributed DBMS); C6160Z (Other DBMS); C6120 (File organisation)

FULL-TEXT NPL

5/3,K/2 (Item 1 from file: 484)
DIALOG(R)File 484: Periodical Abs Plustext

02782673 **Supplier Number:** 96151893 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Two MIS analysis methods: An experimental comparison

Wang, Shouhong
Journal of Education for Business (IJEB) , v71 n3 , p 136-141
Jan 1996
ISSN: 0883-2323 **Journal Code:** IJEB
Document Type: Feature
Language: English **Record Type:** Fulltext; Abstract
Word Count: 3104 **Length:** Long (31+ col inches)
TEXT:
...syntactic errors in data flows and incompleteness, as well as semantic errors resulting from missing **semantic** connections between **object classes** of the system. Second, the OOA method does not require the analyst to perform functional...

IEEE Xplore

2. **Reasoning strategies for 3D object detection**
Sandakly, F.; Giraudon, G.;
Computer Vision, 1995. Proceedings., International Symposium on
21-23 Nov. 1995 Page(s):557 - 562
Digital Object Identifier 10.1109/ISCV.1995.477060
Summary: We present a 3D scene interpretation system for a mobile robot. This system has been developed with a generic interpretation architecture called MESSIE. This architecture includes a generic representation of objects, sensors, and scene. It allows the.....

AbstractPlus | Full Text: PDF(628 KB) IEEE CNF
Rights and Permissions

4. **Scene analysis system**
Sandakly, F.; Giraudon, G.;
Image Processing, 1994. Proceedings. ICIP-94., IEEE International Conference
Volume 3, 13-16 Nov. 1994 Page(s):806 - 810 vol.3
Digital Object Identifier 10.1109/ICIP.1994.413777
Summary: This paper presents MESSIE, a multi-specialist scene analysis system. It is a centralized hierarchical blackboard architecture. The generic model of objects and the explicit description of sensors and materials allow the use of an application-indepen.....

AbstractPlus | Full Text: PDF(396 KB) IEEE CNF
Rights and Permissions

1. **Enterprise application integration encounters complex adaptive systems: a business object perspective**
Sutherland, J.; van den Heuvel, W.-J.;
System Sciences, 2002. HICSS. Proceedings of the 35th Annual Hawaii International Conference on
7-10 Jan 2002 Page(s):3724 - 3733

Summary: To remain competitive organizations are lining up into virtual alliances, with integrated value chains, introducing competition between, rather than within supply chains. A crucial requirements of virtual alliances, and their supporting, integrated e.....

AbstractPlus | Full Text: PDF(407 KB) IEEE CNF
Rights and Permissions

2. **Dynamic presentation of phrasally-based document abstractions**
Boguraev, B.; Bellamy, R.; Kennedy, C.;
System Sciences, 1999. HICSS-32. Proceedings of the 32nd Annual Hawaii International Conference on
Volume Track2, 5-8 Jan. 1999 Page(s):10 pp.
Digital Object Identifier 10.1109/HICSS.1999.772684
Summary: Summarisation technologies today work, in essence, by performing data reduction over the original document source. Document fragments, identified as particularly representative of content, are extracted and offered to the user. Typically, such fragme.....

AbstractPlus | Full Text: PDF(2636 KB) IEEE CNF
Rights and Permissions

3. **Maintaining a COTS integrated solution-are traditional static analysis techniques sufficient for this new programming methodology?**
Cherinka, R.; Overstreet, C.M.; Ricci, J.;
Software Maintenance, 1998. Proceedings. International Conference on
16-20 Nov. 1998 Page(s):160 - 169
Digital Object Identifier 10.1109/ICSM.1998.738505
Summary: As integrating commercial off-the-shelf (COTS) products into new homogeneous systems replaces "traditional" software development approaches, software maintenance problems persist. This approach builds new solutions via "glue code&rd.....

AbstractPlus | Full Text: PDF(136 KB) IEEE CNF
Rights and Permissions

4. **Towards self-configuring networks**
Konstantinou, A.V.; Florissi, D.; Yemini, Y.;
DARPA Active NEtworks Conference and Exposition, 2002. Proceedings
29-30 May 2002 Page(s):143 - 156
Digital Object Identifier 10.1109/DANCE.2002.1003489
Summary: Current networks require ad-hoc operating procedures by expert administrators to handle changes. These configuration management operations are costly and error prone. Active networks involve particularly fast dynamics of change that cannot depend on .....

AbstractPlus | Full Text: PDF(532 KB) IEEE CNF
Rights and Permissions

5. **CMIS/P++: extensions to CMIS/P for increased expressiveness and efficiency in the manipulation of management information**
Pavlou, G.; Liotta, A.; Abbi, P.; Ceri, S.;
INFOCOM '98. Seventeenth Annual Joint Conference of the IEEE Computer and Communications Societies. Proceedings. IEEE
Volume 2, 29 March-2 April 1998 Page(s):430 - 438 vol.2
Digital Object Identifier 10.1109/INFCOM.1998.665059
Summary: CMIS/P is the OSI system management service and protocol, used as the base technology for the telecommunication management network. It is a generic object-oriented protocol that provides multiple object access capabilities to managed object clusters .....

AbstractPlus | Full Text: PDF(896 KB) IEEE CNF
Rights and Permissions

6. **Automated acquisition of geographic information from scanned maps for GIS using frames and semantic networks**
Maderlechner, G.; Mayer, H.;
Pattern Recognition, 1994. Vol. 2 - Conference B: Computer Vision & Image Processing., Proceedings of the 12th IAPR International. Conference on
Volume 2, 9-13 Oct. 1994 Page(s):361 - 363 vol.2
Digital Object Identifier 10.1109/ICPR.1994.576936
Summary: Data acquisition is the bottleneck for the introduction of geographic information systems (GIS). This paper presents a system for automatic extraction of semantic information from land register maps. The system uses explicit knowledge of the map, whi.....

AbstractPlus | Full Text: PDF(236 KB) IEEE CNF
Rights and Permissions

7. **The design of real-time extensions to the Open Object Oriented Database system**
Wolfe, V.F.; DiPippo, L.C.; Prichard, J.J.; Peckham, J.; Fortier, P.J.;
Object-Oriented Real-Time Dependable Systems, 1994. Proceedings of WORDS 94., First Workshop on
24-25 Oct. 1994 Page(s):86 - 93
Digital Object Identifier 10.1109/WORDS.1994.518675
Summary: The paper describes real time extensions to the Open Object Oriented Database system using the RTSORAC data model. This model combines an object oriented data model, real time requirements, flexible transactions, semantic relationships among objects,.....

AbstractPlus | Full Text: PDF(632 KB) IEEE CNF
Rights and Permissions

8. **Integrating object-oriented scripting languages with HyTime**
Buford, J.F.; Rutledge, L.; Rutledge, J.L.;
Multimedia Computing and Systems, 1994., Proceedings of the International Conference on
15-19 May 1994 Page(s):425 - 434
Digital Object Identifier 10.1109/MMCS.1994.292464
Summary: HyTime provides a comprehensive set of primitives for composing hypermedia documents, but does not provide facilities for representing interaction or dynamic behavior, areas which are required in commercial multimedia authoring environments. In previ.....

AbstractPlus | Full Text: PDF(724 KB) IEEE CNF
Rights and Permissions

9. **Improving access to multi-dimensional self-describing scientific datasets**
Nam, B.; Sussman, A.;
Cluster Computing and the Grid, 2003. Proceedings. CCGrid 2003. 3rd IEEE/ACM International Symposium on
12-15 May 2003 Page(s):172 - 179
Digital Object Identifier 10.1109/CCGRID.2003.1199366
Summary: Applications that query into very large multidimensional datasets are becoming more common. Many self-describing scientific data file formats have also emerged, which have structural metadata to help navigate the multi-dimensional arrays that are sto.....

AbstractPlus | Full Text: PDF(319 KB) IEEE CNF
Rights and Permissions

10. **Information retrieval based on conceptual network**
Junfang Zeng; Yiping Yang;
Natural Language Processing and Knowledge Engineering, 2003. Proceedings. 2003 International Conference on
26-29 Oct. 2003 Page(s):380 - 387
Digital Object Identifier 10.1109/NLPKE.2003.1275935
Summary: With information exploding on the Internet, existing search engines encounter difficulty in accurate document positioning. Powerful content-based search engines are in need for helping us find useful information accurately and efficiently. Based on o.....

AbstractPlus | Full Text: PDF(486 KB) IEEE CNF
Rights and Permissions

11. **FORGE: a framework for optimization of distributed embedded systems software**
Cornea, R.; Dutt, N.; Gupta, R.; Krueger, I.; Nicolau, A.; Schmidt, D.; Shukla, S.;
Parallel and Distributed Processing Symposium, 2003. Proceedings. International
22-26 April 2003 Page(s):13 pp.
Digital Object Identifier 10.1109/IPDPS.2003.1213381
Summary: FORGE brings together a number of advances in architectural modeling, software architecture and distributed/real-time systems to build a platform that provides two fundamental capabilities for distributed, real time, and embedded (DRE) system develop.....

AbstractPlus | Full Text: PDF(641 KB) IEEE CNF
Rights and Permissions

12. **An environment for mobile context-based hypermedia retrieval**
Carswell, J.D.; Eustace, A.; Gardiner, K.; Kilfeather, E.; Neumann, M.;
Database and Expert Systems Applications, 2002. Proceedings. 13th International Workshop on
2-6 Sept. 2002 Page(s):532 - 536
Summary: This paper proposes a novel solution to querying hyperlinked multimedia cultural heritage datasets based on the user's context. Context in this sense is defined as the user's location in virtual

space and the particular mobile device being modeled to.....

AbstractPlus | Full Text: PDF(397 KB) IEEE CNF
Rights and Permissions

13. **A live TV-quality distant learning multimedia presentation system for education**
Sheng-Tun Li; Shu-Ching Chen; Mei-Ling Shyu;
System Sciences, 2001. Proceedings of the 34th Annual Hawaii International Conference on
Jan 3-6 2001 Page(s):9 pp.
Summary: In this paper an abstract semantic model called multimedia augmented transition network (MATN) to model a live TV-like multimedia presentation system for distance learning education purpose is presented. Unlike the original design for CISCO IP/TV sys.....

AbstractPlus | Full Text: PDF(680 KB) IEEE CNF
Rights and Permissions

14. **An architecture for heterogeneous groupware applications**
Marsic, I.;
Software Engineering, 2001. ICSE 2001. Proceedings of the 23rd International Conference on
12-19 May 2001 Page(s):475 - 484
Digital Object Identifier 10.1109/ICSE.2001.919120
Summary: The proliferation of wireless networks and small portable computing devices raises the need for applications that are adaptable to heterogeneous computing and communication environments and the contexts in which they are used. However, most current g.....

AbstractPlus | Full Text: PDF(1112 KB) IEEE CNF
Rights and Permissions

15. **Enhancing Jini with group communication**
Montresor, A.; Davoli, R.; Babaoglu, O.;
Distributed Computing Systems Workshop, 2001 International Conference on
16-19 April 2001 Page(s):69 - 74
Digital Object Identifier 10.1109/CDCS.2001.918689
Summary: Reliable group communication has proven to be an important technology for building fault-tolerant applications, yet many frameworks for distributed application development (e.g. DCOM, Jini and Enterprise JavaBeans) do not support it. The only notable.....

AbstractPlus | Full Text: PDF(492 KB) IEEE CNF
Rights and Permissions

16. **Agent-based architecture for modeling and simulation integration**
McDonald, J.T.; Talbert, M.L.;
National Aerospace and Electronics Conference, 2000. NAECON 2000. Proceedings of the IEEE 2000
10-12 Oct. 2000 Page(s):375 - 382
Digital Object Identifier 10.1109/NAECON.2000.894935
Summary: The Department of Defense (DOD) has an extensive family of models used to digitally simulate the mission level interactions of weapon systems. Interoperability and reuse of the underlying

data files used to create simulation scenarios are of particul.....

AbstractPlus | Full Text: PDF(616 KB) IEEE CNF
Rights and Permissions

17. **Object-oriented database access via reflection**
Ege, R.K.;
Computer Software and Applications Conference, 1999. COMPSAC '99. Proceedings. The Twenty-Third Annual International
27-29 Oct. 1999 Page(s):36 - 41
Digital Object Identifier 10.1109/CMPSAC.1999.812673
Summary: The object-oriented programming language Java is an ideal companion to an object-oriented database system. This paper describes our approach to provide an almost seamless application programmer interface that allows Java programs to exchange objects .....

AbstractPlus | Full Text: PDF(456 KB) IEEE CNF
Rights and Permissions

18. **Storing Java objects in any database**
Ege, R.K.;
Technology of Object-Oriented Languages and Systems, 1999. TOOLS 30. Proceedings
1-5 Aug. 1999 Page(s):312 - 321
Digital Object Identifier 10.1109/TOOLS.1999.787560
Summary: Typical Java applications involve access to a database system. Database systems store data according to their type system; even object oriented databases generally have their own storage structures. It is therefore necessary to convert Java objects a.....

AbstractPlus | Full Text: PDF(188 KB) IEEE CNF
Rights and Permissions

19. **Smart avatars in JackMOO**
Jianping Shi; Smith, T.J.; Granieri, J.P.; Badler, N.I.;
Virtual Reality, 1999. Proceedings., IEEE
13-17 March 1999 Page(s):156 - 163
Digital Object Identifier 10.1109/VR.1999.756946
Summary: Creation of compelling 3-dimensional, multi-user virtual worlds for education and training applications requires a high degree of realism in the appearance, interaction, and behavior of avatars within the scene. Our goal is to develop and/or adapt ex.....

AbstractPlus | Full Text: PDF(100 KB) IEEE CNF
Rights and Permissions

20. **The design and implementation of an infrastructure for multimedia digital libraries**
de Vries, A.P.; Eberman, B.; Kovalcin, D.E.;
Database Engineering and Applications Symposium, 1998. Proceedings. IDEAS'98. International
8-10 July 1998 Page(s):103 - 110
Digital Object Identifier 10.1109/IDEAS.1998.694364
Summary: We develop an infrastructure for managing, indexing and serving multimedia content in

digital libraries. This infrastructure follows the model of the Web, and thereby is distributed in nature. We discuss the design of the Librarian, the component tha.....

AbstractPlus | Full Text: PDF(76 KB) IEEE CNF
Rights and Permissions

21. **A modular Java API for object-oriented databases**
Ege, R.K.; Battikhi, Y.; Pardo, P.; Uppal, J.; Rishe, N.;
Computer Software and Applications Conference, 1998. COMPSAC '98. Proceedings. The Twenty-Second Annual International
19-21 Aug. 1998 Page(s):55 - 60
Digital Object Identifier 10.1109/CMPSAC.1998.716636
Summary: The object-oriented programming language Java is an ideal companion to an object-oriented database system. This paper describes our approach to provide a seamless application programmer interface. It is based on a modular architecture with components.....

AbstractPlus | Full Text: PDF(44 KB) IEEE CNF
Rights and Permissions

22. **A parallel program execution model supporting modular software construction**
Dennis, J.B.;
Massively Parallel Programming Models, 1997. Proceedings. Third Working Conference on
12-14 Nov. 1997 Page(s):50 - 60
Digital Object Identifier 10.1109/MPPM.1997.715961
Summary: A watershed is near in the architecture of computer systems. There is overwhelming demand for systems that support a universal format for computer programs and software components so users may benefit from their use on a wide variety of computing pla.....

AbstractPlus | Full Text: PDF(820 KB) IEEE CNF
Rights and Permissions

23. **Intelligent delivery of personalised video programmes from a video database**
Faudemay, P.; Seyrat, C.;
Database and Expert Systems Applications, 1997. Proceedings., Eighth International Workshop on
1-2 Sept. 1997 Page(s):172 - 177
Digital Object Identifier 10.1109/DEXA.1997.617264
Summary: The authors present a system for intelligent access to videos, which enables one to apply content-based and cooperative queries to the video database, and to retrieve sets of sequences and personalized videos. The system is based on the previous segm.....

AbstractPlus | Full Text: PDF(444 KB) IEEE CNF
Rights and Permissions

24. **MDARTS: A real-time database for the control and monitoring of manufacturing systems**
Lortz, V.B.; Shin, K.G.;
American Control Conference, 1994
Volume 3, 29 June-1 July 1994 Page(s):3328 - 3333 vol.3
Digital Object Identifier 10.1109/ACC.1994.735191

Summary: In this paper, we describe an object-oriented memory-based real-time database system called MDARTS (Multiprocessor Database Architecture for Real-Time Systems). MDARTS is specifically designed to support high-speed real-time applications such as next.....

AbstractPlus | Full Text: PDF(460 KB) IEEE CNF
Rights and Permissions

25. **Ensuring management systems interoperability throughout an operational object model designing**
Sibilla, M.; Marquie, D.; Raynaud, Y.;
Global Telecommunications Conference, 1992. Conference Record., GLOBECOM '92. Communication for Global Users., IEEE
6-9 Dec. 1992 Page(s):1004 - 1009 vol.2
Digital Object Identifier 10.1109/GLOCOM.1992.276373
Summary: The study of an information system related to OSI management applications is described. An information system architecture suitable for the requirements of heterogeneous and distributed management information processing is specified. An ad hoc design.....

AbstractPlus | Full Text: PDF(620 KB) IEEE CNF
Rights and Permissions